Graphics Commands SKEWNESS PLOT

SKEWNESS PLOT

PURPOSE

Generates a subsample skewness versus subsample index plot.

DESCRIPTION

The subsample skewness is the cube root of the standardized third central moment of the data in the subsample. The skewness plot is used to answer the question: "Does the subsample skewness change over different subsamples?" It consists of:

```
Vertical axis = subsample skewness;
Horizontal axis = subsample index.
```

In addition, a horizontal line is drawn representing the full sample skewness. The appearance of the 2 traces is controlled by the first 2 settings of the LINES, CHARACTERS, SPIKES, BARS, and similar attributes.

SYNTAX

```
SKEWNESS PLOT <y> <x>
```

<SUBSET/EXCEPT/FOR qualification>

where <y> is the response (= dependent) variable;

<x> is the subsample identifier variable (this variable appears on the horizontal axis); and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

```
SKEWNESS PLOT Y X
```

SKEWNESS PLOT Y X SUBSET X > 2

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

CHARACTERS = Sets the type for plot characters.

LINES = Sets the type for plot lines.

KURTOSIS PLOT = Generates a kurtosis plot.

VARIANCE PLOT = Generates a variance plot.

STANDARD DEVIATION PLOT = Generates a standard deviation plot.

RANGE PLOT = Generates a range plot
MEAN PLOT = Generates a mean plot.
MEDIAN PLOT = Generates a median plot.
BOX PLOT = Generates a box plot.

S CHART = Generates a standard deviation control chart.

PLOT = Generates a data or function plot.

APPLICATIONS

Quality Control

IMPLEMENTATION DATE

88/2

SKEWNESS PLOT Graphics Commands

PROGRAM

SKIP 25 READ GEAR.DAT Y X LINE BLANK DASH CHARACTER X BLANK XTIC OFFSET 0.2 0.2 YILABEL SKEWNESS XILABEL SAMPLE ID TITLE AUTOMATIC SKEWNESS PLOT Y X

